

## CLAIMS:

1.           An x-ray detector comprising
  - a plurality of detector units arranged in a detection surface,
  - individual detector units including a sensor element and read-out circuit, wherein
  - the sensor elements and the read-out circuitry are spatially separated transversely to the
  - 5       detection surface and
  - an x-ray shielding member is at least for a part arranged between individual sensor elements and individual read-out circuits.
2.           An x-ray detector as claimed in Claim 1, wherein
  - 10       - in the x-ray shielding member an interruption is left open and
  - a signal connection from the sensor element to the read-out circuit passes through the interruption.
3.           An x-ray detector as claimed in Claim 1 or 2, wherein the x-ray shielding
  - 15       member extends over several detection units.
4.           An x-ray detector as claimed in Claim 1, wherein adjacent read-out circuits are separated by transverse absorption units.
- 20   5.           An x-ray detector as claimed in Claim 4 wherein the transverse absorption units are integrated in the x-ray shielding member.
6.           An x-ray detector as claimed in Claim 1, wherein within individual detector units, the sensor element and the read-out circuit are offset parallel to the detection surface.